

CALIFORNIA ENERGY COMMISSION

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**NOTICE OF PROPOSED AWARD (NOPA)**

**Natural Gas Infrastructure Safety and Integrity: Seismic Risk Assessment and
Enhanced Training
GFO-18-502
March 20, 2019**

On December 20, 2018, the California Energy Commission (Energy Commission) released a competitive solicitation to fund research to develop and demonstrate advanced technologies, techniques, and tools that can improve the ability to assess risks to the natural gas infrastructure from seismic activity, and provide enhanced training and tools for the California Public Utilities Commission (CPUC) natural gas inspectors. Up to \$6,700,000 in Natural Gas Research Program funding is available to fund applications in:

- Group 1: Seismic Risk Assessment and Management of Natural Gas Storage and Pipeline Infrastructure
- Group 2: Enhanced Training and Tools for Engineers and Inspectors Responsible for Conducting Pipeline Inspections and Utility Operations Audit

The Energy Commission received seven proposals by the due date of February 4, 2019. Each proposal was screened, reviewed, evaluated and scored using the criteria in the solicitation. Seven proposals passed the Stage One Application Screening.

The attached "Notice of Proposed Awards" identifies each applicant selected and recommended for funding by Energy Commission staff and includes the recommended funding amount and score. The total amount recommended is \$8,425,413.

Funding of proposed projects resulting from this solicitation is contingent upon the approval of these projects at a publicly noticed Energy Commission Business Meeting and execution of a grant agreement. If the Energy Commission is unable to timely negotiate and execute a funding agreement with an Applicant, the Energy Commission, at its sole discretion, reserves the right to cancel or otherwise modify the pending award, and award the funds to another applicant.

In addition, the Energy Commission reserves the right to: 1) add to, remove, or shift funding between the different groups if there are insufficient passing proposals in one group and 2) negotiate with successful applicants to modify the project scope, schedule, and level of funding.

This notice is being mailed to all parties who submitted an application to this solicitation and is also posted on the Energy Commission's website at: www.energy.ca.gov/contracts/.

For information, please contact Brad Worster, at (916) 654-4299 or Brad.Worster@energy.ca.gov.

Brad Worster
Commission Agreement Officer



California Energy Commission

GFO-18-502

Natural Gas Infrastructure Safety and Integrity: Seismic Risk Assessment and Enhanced Training

Project Group 1 – Seismic Risk Assessment and Management of Natural Gas Storage and Pipeline Infrastructure

Notice of Proposed Awards

March 20, 2019

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Awards							
1	The Regents of the University of California on behalf of the Berkeley campus	Performance Based Earthquake Engineering Assessment Tool for Gas Storage and Transmission Systems	\$4,940,158	\$4,940,158	\$254,294	85.62	Awardee
2	University of California, Los Angeles	Seismic Risk Assessment and Management of Natural Gas Storage and Pipeline Infrastructure in CA	\$3,485,255	\$3,485,255	\$410,411	83.76	Awardee
Total Funding Recommended			\$8,425,413	\$8,425,413	\$664,705		
Passed but Not Funded							
3	Lawrence Livermore National Security LLC	A Novel Seismic Risk Assessment Approach for Natural Gas Infrastructure Combining Physics-Based Simulations of Earthquake Ground Motions with System Fragilities and Response	\$1,991,065	\$0	\$0	79.28	Finalist
Total			\$1,991,065	\$0	\$0		
Did Not Pass							
#	G&E Engineering Systems Inc.	Natural Gas Infrastructure Safety and Integrity, Seismic Risk Assessment	\$1,100,207	\$0	\$0		Did Not Pass
#	Imagecat, Inc.	A Platform for Assessing the Seismic Risk of California's Natural Gas Pipeline Systems	\$1,713,878	\$0	\$10,996		Did Not Pass
Total			\$2,814,085	\$0	\$10,996		
Grand Total			\$13,230,563	\$8,425,413	\$675,701		



California Energy Commission

GFO-18-502

Natural Gas Infrastructure Safety and Integrity: Seismic Risk Assessment and Enhanced Training
Project Group 2 – Develop Enhanced Training and Tools for Engineers and Inspectors Responsible for Conducting Pipeline
Inspections and Utility Operations Audit

Notice of Proposed Awards

March 20, 2019

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Did Not Pass							
#	Acellent Technologies, Inc	Multi-modal inspection enhanced training (MMIT) tools for Natural Gas Pipeline	\$1,571,429	\$0	\$122,344		Did Not Pass
#	Institute of Gas Technology dba Gas Technology Institute	Energy Commission Enhanced Training and Inspection Tools	\$1,700,000	\$0	\$450,000		Did Not Pass
Total			\$3,271,429	\$0	\$572,344		
Grand Total			\$3,271,429	\$0	\$572,344		